

Listing of claims

1-70 (cancelled)

71. (currently amended) An A standalone implantable power module comprising:
a sealed biocompatible case enclosing a power source for powering a medical device
located external to said case;
a power management circuit; and
an inductive charging coil; wherein
said implantable power module is standardized to power a variety of different medical
devices.

72. (previously presented) The implantable power module recited in claim 71 wherein
said power source comprises an electrochemical storage device.

73. (previously presented) The implantable power module of claim 71 wherein said
power source comprises at least one primary battery.

74. (previously presented) The implantable power module recited in claim 71 wherein
said power source is shielded with a ferrous material.

75. (previously presented) The implantable power module recited in claim 71 wherein
said power management circuit and said inductive charging coil are enclosed within said
sealed biocompatible case.

76. (previously presented) The implantable power module recited in claim 71 wherein
said inductive charging coil is located outside said sealed biocompatible case.

77. (previously presented) The implantable power module recited in claim 76 wherein
said coil is coated with a polymer coating.

78. (previously presented) The implantable power module recited in claim 71 further
comprising a communication means for remotely interrogating the status of said power
module.

79. (previously presented) The implantable power module of claim 71 further comprising a means for remotely controlling said power module.

80. (previously presented) The implantable power module recited in claim 71 further comprising at least one external hermetic connector for coupling said power source to the medical device located external to said case.

81. (previously presented) The implantable power module of claim 80 wherein said connector is further characterized by being detachably connectable to said medical device.

82. (currently amended) A standalone implantable power module comprising:
a sealed biocompatible case for implanting within a body, said case containing components consisting essentially of:
at least one electrochemical energy storage device; and
a power management circuit; and
at least one hermetic connector for providing power from said power module to an implantable medical device located external to said sealed biocompatible case;
wherein
said implantable power module is standardized to power a variety of different implantable medical devices.

83. (previously presented) The implantable power module recited in claim 82 further comprising an inductive charging coil.

84. (previously presented) A implantable power module comprising:
a sealed biocompatible case containing components consisting essentially of:
at least one electrochemical energy storage device;
a communication couple; and
a power management circuit.

85. (previously presented) The implanted power module recited in claim 84 further comprising at least one external hermetic plug.

86. (previously presented) The implantable power module recited in claim 84 further comprising an inductive charging coil.

87. (currently amended) A method for using a power module comprising a sealed biocompatible case enclosing a power management circuit and a power source for powering a medical device located external to said case, said method comprising the acts of:

providing a standalone implantable power module standardized to power a variety of different implantable medical devices;

selecting an implantable medical device from among devices powerable by said power module;

coupling said power module to the selected medical device; and

implanting said power module in a human or animal body.

88. (previously presented) The method of claim 87 wherein said implanting act comprises injecting said power module in said body.

89. (previously presented) The method of claim 87, further comprising the act of:

locating the power module after said power module has been implanted in said body.

90. (currently amended) The method of claim 87, further wherein said coupling act comprises the act of:

connecting the medical device to the power module via a hermetic connector prior to implanting said power module in said body.

91. (new) A standalone standardized implantable power module suitable for use with a variety of different implantable medical electronic devices without the need to modify said power module for each type of said medical electronic device.

92. (new) The standardized implantable power module of claim 91 wherein said power module has a capacity of approximately 0.1 to 10 mAh.

93. (new) The standardized implantable power module of claim 91 wherein said power module has a capacity of approximately 10 to 500 mAh.

94. (new) The standardized implantable power module of claim 91 wherein said power module has a capacity of approximately 500 mAh to 20 Ah.

95. (new) The standardized implantable power module of claim 91 further characterized by being detachably connectable to each said medical electronic device.

96. (new) The standardized implantable power module of claim 91 further characterized by being directly connectable to each said medical electronic device.

97. (new) The standardized implantable power module of claim 91 further characterized by being connectable to each said medical electronic device via a lead.

98. (new) The standardized implantable power module of claim 91 further characterized by being implanted in a different location from a medical electronic device powered by said power module.

99. (new) A method for providing power for an implantable medical electronic device, comprising:

providing a standalone implantable power module comprising a sealed case enclosing a power source, said power module standardized to couple to and power a variety of different implantable medical electronic devices; and

providing a plurality of said medical electronic devices powerable by said standardized implantable power module and located external to said case.

100. (new) The method recited in claim 99 wherein said power source comprises a secondary power source, said method further comprising:

providing an inductive charging coil for recharging said secondary power source.

101. (new) The method recited in claim 100 wherein said inductive charging coil is detachably connectable to said implantable power module.